

Begin

Reel #281

Kuz'mina, R.M.

TERSKIKH, V.I.; CHERNUKHA, Yu.G.; KOKOVIN, I.L.; KUZ'MINA, R.M.; PRUDNIKOV, M.N.; SORINA, A.M.; ZANEGINA, P.T.

Regional epidemiology of leptospiroses in Smolensk Province. Zhur. mikrobiol. epid. i immun. 31 no.7:123-127 J1 '60. (MIRA 13:9)

1. Iz Instituta epidemiologii i mikrobiologii im. Gamalei AMN SSSR i Smolenskoy oblastnoy sanitarno-epidemiologicheskoy stantsii.
(SMOLENSK PROVINCE—LEPTOSPIROSIS)

GLAZKOV, Ye.N.; KUZ'MINA, R.N.; CHAZOVA, L.A.; CHERDYNTSEV, I. Ye.

Combined systems for dressing copper-bismuth ores of Central
Asia. Izv. AN Uz. SSR. Ser. tekhn. nauk. 9 no. 6:40-43 '65
(MIRA 19:1)

1. Sredazni protsvetmet. Submitted May 20, 1965.

PHASE 2: BOOK EXCERPTS

SOV/3402

18(1.3)

Soveshchaniye po prikladnoy tekhnologii i razvitiyu nauki
uchebnaya fiziko-mekhanicheskikh avyestov konstruktivnykh i
spetsial'nykh stali i sployov

Reduktsionnye elementy v stalyakh i sployakh; vedy sovetskoye...
(Rare Earth Elements in Steels and Alloys). Transactions of a
Conference on the Use of Rare Earth Elements To Improve the Physi-
cal and Mechanical Properties of Structural and Special Steels
and Alloys. Moscow, Metallurgizdat, 1959. 246 p. Errata slip
inserted. 3,150 copies printed.

Ed.: A. A. Prokhorov; Ed. of Publisher's House: A. L. Ozeretskaya;
Tech. Ed.: P. O. Ilyent'eva.

PREFACE: This book is intended for engineers, technicians and
scientists engaged in the metallurgy of ferrous and nonferrous
metals, and may be used by students of higher educational
schools, who are specializing in the metallurgical science of
these metals.

The book contains 11 articles which give general
concepts of investigations and uses of rare earths as alloying
components in steels and alloys. The influence of rare earth
additives in improving the technical properties of structural,
fire-resistant and other steels and alloys is also described.
Figures, tables and references (mostly Soviet) accompany each
article. No personalities are mentioned.

Logan, R. J., Candidate of Technical Sciences, Institut minero-
logii, geologii i kristallografii i redkikh elementov, AN SSSR
(Institute for Mineralogy, Geochemistry and Chemical Crystallo-
graphy of Rare Earth Elements, AS USSR). The State of Rare Earths
Production and the trend in its development (According to non-
Soviet literature) 5

Yermolov, V. V., Engineer, Candidate of Chemical Sciences;
M. M. Nikolayev, and B. P. Kuznetsov, Engineers, Methods of De-
termining Small Amounts of Rare Earths in Steels 26

Savitskiy, Ya. M., Doctor of Chemical Sciences; V. P. Zerkhova,
Candidate of Technical Sciences; and V. A. Tikhonov, Engineer,
Investigation of the Physicochemical Interaction of Rare Earth
Metals With Iron and Steel 31

Bezrubova, Z. Ya., Engineer, Effect of Rare Earths on the
Sulfur and Oxygen Contents of Molten Steel and the State of
Sulfur in Solid Steel 50

Kuliyev, V. A., Engineer, Dependency of the Mechanical
Properties of Steel on Steel Jittering on Reducing Agents
and Methods of Extraction 77

Gulyayev, M. B., Doctor of Technical Sciences; I. A. Shapranov,
Candidate of Technical Sciences; O. M. Magnitskiy, Candidate
of Technical Sciences; and Z. D. Mykistrova, Engineer, Influence
of Rare Earths on the Crystallization and Mechanical Properties
of Cast Steel 92

Verbol'shaya, Ye. D., Engineer; L. V. Isakov, Engineer; and
A. Ye. Dalshteyn, Doctor of Technical Sciences, The Effect
of Cerium Additives on the Properties of Cr-Ni-Mo Steel for
Shaped Steel Casting 118

Gol'dstern, Ye. Ye., Candidate of Technical Sciences, and
O. D. Zhidkova, Engineer, The Effect of Cerium on the
Structure and Properties of Cast and Forged Steel 130

Kopp, L. P., Candidate of Technical Sciences, and
G. A. Zerkhov, Candidate of Technical Sciences, Study of
the Effect of Rare Earths on the Physicochemical Proper-
ties of Cr-Ni-Mo Steel 155

Studenits, M. A., Candidate of Technical Sciences;
Yu. I. Zinov, Engineer; and A. I. Sokolov, Engineer,
The Influence of Rare Earths on the Nature of Fracture
and the Structure and Properties of Steel 183

Panilov, G. P., Candidate of Technical Sciences; M. V. Poplavko,
Candidate of Technical Sciences, Additives for Welding
Titanium Alloys 196

Zoffe, V. M., Candidate of Technical Sciences, and V. M. Burov,
Engineer, Electrochemical Method of Producing Nickel-Metal-
Magnesium Alloys for Modified Cast Iron 204

Kopp, L. P., Candidate of Technical Sciences; L. M. Shidlova,
Engineer; and O. D. Sudakova, The Problems of Causes for the
Low Plasticity of Mn-Al-type Steel at High Temperature and
Possibilities of Improving this Condition With Rare Earths 211

ZAYEV, N.Ye., inzh.; KUZ'MINA, R.P., inzh.

Some properties of charged solid dielectrics. Elektrotehnika
36 no.4:41-43 Ap '65. (MIRA 18:5)

KUZ'MINA, Rita Pavlovna; ZYUZENKOV, I.P., red.; ATROS. CHENKO, L.Ye.,
tekhn. red.

[Lighter than cork, stronger than metal; plastic materials
and their uses] Legche probki, prochnee metalla; plastmassy i
ikh primeneniye. Moskva, Izd-vo "Znanie," 1960. (Vsesoiuznoe
obshchestvo po rasprostraneniyu politicheskikh i nauchnykh
znaniy. Ser.10, Molodezhnaya, no.3). 31 p. (MIRA 13:4)
(Plastics)

KUVAYEV, N.N., kand.tekhn.nauk; KUZ'MINA, R.V., inzh.; MOZHZHERIN, V.M.,
inzh.

Stability of pit edges at the Central Mining and Ore Dressing
Combine. Gor.zhur. no.12:8-9 D '63. (MIRA 17:3)

1. Krivorozhskiy opornyy punkt Vsesoyuznogo nauchno-issledovatel's-
kogo marksheyderskogo instituta.

KUVAYEV, N.N., kand. tekhn. nauk; KUZ'MINA, R.V.

Insuring the stability of strip mine slopes at the Southern
Mining and Ore Dressing Combine. Met. i gornorud. prom.

no.1:49-50 Ja-F '65.

(MIRA 18:3)

KUZ'MINA, S.A.

KUZ'MINA S.A. (Novgorod).

First lessons in geometry. Mat.v shkole no.5:88-91 S-0 '57.

(MLRA 10:9)

(Geometry--Study and teaching)

KUZ'MINA, S.A. (Novgered).

Experience in working with the new geometry textbook in grade 6.
Mat. v shkole no.6:47-52 M-D '58. (MIRA 11:12)
(Geometry--Study and teaching)

KUZ'NINA, S.A. - DOMINSKIY, I.S.

Test problems for the geometry course in the 6th grade. Mat.v
shkole no.4:44-51 J1-Ag '59. (MIRA 12:11)
(Geometry--Problems, Exercises, etc.)

KUZ'MINA, Serafima Aleksseyevna; FETISOV, A.I., red.; GUS'KOV, G.G., red.;
SHAPOSHNIKOVA, A.A., red.; NOVOSKLOVA, V.V., tekhn.red.

[Demonstrating theorems in the 6th grade geometry course] O dokazatel'stve teorem v kurse geometrii VI klassa. Pod red. A.I. Fetisova. Moskva, Izd-vo Akad.pedagog.nauk RSFSR, 1960. 49 p.
(MIRA 13:12)

(Geometry--Study and teaching)

NEDZVETSKIY, S.V.; KUZ'MINA, S.N.

Structure of lipoproteins of the gray matter of animal brain.
Biokhimiia 25 no.2:251-254, Mr-Apr '60. (MIRA 14:5)

1. Kafedra biologicheskoy khimii Sanitarno-gigiyenicheskogo meditsinskogo instituta, Leningrad.
(LIPOPROTEINS) (BRAIN)

KUZ'MINA, S.M.

Structure of a lipoprotein in the white substance of the brain
of animals. Vop. med. khim. 8 no.3:238-241 My-Je '62.

(MIRA 15:7)

1. Kafedra biokhimii Leningradskogo sanitarno-gigiyenicheskogo
instituta.

(BRAIN) (LIPOPROTEINS)

DAVIDOV, Yu.P.; POKROVSKIY, G.V.; KONDRAT'YEVA, N.B.; Prinsipal
uchastiye: KUZ'MICHEV, M.D.; LOMONOSOVA, A.A.; KUZ'MINA, S.P.

Mechanical properties and the forgeability of alloys of the
system aluminum - magnesium. Alium. splavy no.3:285-299 '64.

Forgeability of peened magnalium-type alloys. Ibid.:300-312
(MIRA 17:6)

KUZMINA, S. S.

(b)
Some Peculiarities of the Radiation-Induced Polymerization of Acetylenic Hydrocarbons

V. I. Gol'danskii, I. M. Barsalov and S. S. Kuz'mina

The kinetics of the radiation-induced polymerization (initiated by 1.5 MeV electrons) of phenylacetylene, cyclohexylacetylene and hexine were studied. Experiments relating to the radiation-induced polymerization of toluene and p-diethenylbenzene were also carried out. The polymerization was carried out at temperatures from -196 to $+58^{\circ}\text{C}$ in bulk and in solutions. The rate of polymerization was found to be proportional to the intensity, did not affect the rate of the radiation-induced polymerization, and oxygen even accelerated the polymerization of phenylacetylene. The energy of activation of the radiation-induced polymerization of acetylene derivatives was $700-1000$ cal/mole. It is not possible to explain the results obtained on the basis of an ionic mechanism of polymerization: e.g. it was found that the polymerization of phenylacetylene, initiated by benzoyl peroxide, takes place with an energy of activation equal to that of the activation of initiation (22000 cal/mole). Unlike many radiation-induced polymerizations which are thought to have ionic mechanisms, we do not observe any change of energy of activation over the melting-point region. For the polymerization in solutions it was found that a considerable transfer of energy takes place from the solvent (nonane, ethyl acetate) to the monomer.

Institute of Chemical Physics, Academy of Sciences of the USSR, Moscow

report presented at the 2nd Intl. Congress of Radiation Research,
Harrogate/Yorkshire, Gt. Brit. 5-11 Aug 1962

43240

S/844/62/000/000/077/129

D423/D307

AUTHORS: Barkalov, I. M., Gol'danskiy, V. I., Dzantiyev, B. G. and Kuz'mina, S. S.

TITLE: Radiation polymerization of acetylenic hydrocarbons

SOURCE: Trudy II Vsesoyuznogo soveshchaniya po radiatsionnoy khimii. Ed. by L. E. Polak. Moscow, Izd-vo AN SSSR, 1962, 455-459

TEXT: The reaction kinetics and the mechanism of polymerization of phenylacetylene, hexene and cyclohexylacetylene were studied, in both bulk and dissolved monomers, between +80 and -196°C, initiating the polymerization by 1.5 Mev electrons. For bulk polymerization, the yields increased proportionally to the dose of radiation, indicating the absence of inhibitors. Atmospheric oxygen increased the yield of the phenylacetylene polymer, but not those of hexene and cyclohexylacetylene, owing to the absence of the phenyl group in the latter 2 compounds. The rate of polymerization velocity (V) is directly proportional to the radiation intensity (I) and not to

Card 1/2

Radiation polymerization of ...

S/844/62/000/000/077/129
D423/D307

\sqrt{I} as is typical for vinyl monomers. Chain rupture is of a linear nature and is the most important feature of these reactions. The temperature dependence of V was relatively slight for all 3 monomers. Solutions in nonane and ethylacetate were also studied over a wide range of concentration; in all 3 monomers the yields of polymers differed sharply from those expected. A theory for this difference is proposed, substituting the clearly defined process of chain rupture by a single process of chain 'extinction' or 'damping', for which mathematical formulas are presented. This theory accounts for the low activation energy of radiation-induced polymerization of acetylenic hydrocarbons, and also explains the absence of any inhibiting action by oxygen. Mention is also made of the possibility of initiating the polymerization by peroxides. There are 3 figures and 1 table.

ASSOCIATION: Institut khimicheskoy fiziki AN SSSR (Institute of Chemical Physics, AS USSR)

Card 2/2

S/190/63/005/003/014/024
B101/B203

AUTHORS: Barkalov, I. M., Gol'danskiy, V. I., Kotova, L. M.,
Kuz'mina, S. S.

TITLE: Radiation polymerization of acetylene derivatives

PERIODICAL: Vysokomolekulyarnyye soyedineniya, v. 5, no. 3, 1963, 373-377

TEXT: The radiation polymerization of hexyne-1, cyclohexyl acetylene, and octyne-1 up to 10-12% degree of conversion was studied by a method described earlier (Vysokomolek. soyed., 2, 1103, 1960). The results were compared with those obtained for phenyl acetylene. The rate of polymerization decreases in the order phenyl acetylene > octyne > hexyne, cyclohexyl acetylene, and is proportional to the first degree of irradiation intensity. The polymer yield between -196 and 0°C is independent of the radiation dose. Admission of oxygen does not inhibit the process. A reaction sequence is suggested which corresponds to the degradational chain transfer:

(0) $M \xrightarrow{k_0} R^\cdot$; (1) $M + R^\cdot \xrightarrow{k_1} R^\cdot$; (2) $M + R^\cdot \xrightarrow{k_2} RH + M^\cdot$; (3) $R^\cdot + M^\cdot \xrightarrow{k_3} \text{termination}$; (4) $M^\cdot + M^\cdot \xrightarrow{k_4} \text{termination}$; (5) $R^\cdot + R^\cdot \xrightarrow{k_5} \text{termination}$; where
Card 1/2

Radiation polymerization of...

S/190/63/005/003/014/024
B101/B203

R^{\bullet} = polymer radical; M^{\bullet} radical type $R-C\equiv C^{\bullet}$; M = monomer. Since $[R^{\bullet}] \ll [M^{\bullet}]$, reaction (5) can be neglected. If termination occurs according to (3), $W = (2 + k_1/k_2)k_0 I[M]$ holds for the reaction rate, and $\nu = 2 + k_1/k_2$ for the chain length. If termination occurs according to (4), $W = (3 + 2k_1/k_2)k_0 I[M]$ and $\nu = 3 + 2k_1/k_2$. The latter equation corresponds better to the experimental length $\nu = 10 - 13$. k_1/k_2 does not depend on the nature of the radical. The free valence of the polymer chain is situated on a link of the structure $-CR=CR'$. Owing to intense self-inhibition by the monomer, the inhibiting effect of O_2 is not efficient. On the contrary, the yield increases in octyne-1 and phenyl acetylene in the presence of oxygen due to the formation of the more active peroxide radicals. There are 1 figure and 1 table.

ASSOCIATION: Institut khimicheskoy fiziki AN SSSR (Institute of Chemical Physics AS USSR)

SUBMITTED: August 18, 1961

Card 2/2

L 52265-65 EPR(c)/EPR(n)-2/5WG(j)/EWI(m)/EWP(j)/EWA(L)/T/EWA(1) PC-L/Pr-L/Pab/
EPR(c)/SD /RM

Gol'danskiy, V. I. (Corresponding member AN SSSR)

TOPIC TAGS: radiation, radiation polymerization, solid phase polymerization,
polymerization, hexamethylcyclotrisiloxane, cyclic hydrocarbon

ABSTRACT: Kinetics of hexamethylcyclotrisiloxane (I) polymerization in the solid
phase under gamma irradiation was studied in detail. Thermogravimetric analysis of
the irradiated polymer indicated a phase change around 100°C. The polymerization
rate was measured as a function of temperature in the range 10-100°C of
the monomer, and the energy of activation is equal to 10 kcal/mole for the
polymerization of the monomer in the solid phase. The rate of polymerization
of the monomer in the solid phase is proportional to the square of the
monomer concentration, and the activation energy of the polymerization is equal
to 10 kcal/mole. In this temperature range, the rate of polymerization is propor-

Card 1/2

L 52265-65

ACCESSION NR: AP5010838

tional on the radiation intensity. Orig. art. has: 2 figures and 2 formulas.

ASSOCIATION: Institut khimicheskoy fiziki akademii nauk SSSR / Institute of
Chemical Physics, Academy of Sciences USSR

RECEIVED: 15Dec64

ENCL: 00

SUB CODE: GC, cc

NO REF SOV: 006

OTHER: 003

Card 2/2 7/45

Pat. No. 170673

Author: A. I. Romantsova, O. N. Pavlov, T. I. Kuz'mina, S. V.

Method for producing polymeric peroxides. No. 170673

Byulleten' izobreteniy i tovarnykh znakov, no. 9, 1965, 69

Index IACS: polymer, peroxide, polymerization, unsaturated compound

ABSTRACT: This Author's Certificate introduces a method for producing polymeric peroxides. Unsaturated tert-butyl peresters are polymerized in the presence of peroxides with a low dissociation temperature or in the presence of heavy metal salts to produce specific homopolymeric peroxides.

ASSOCIATION: none

CLASSIFICATION: 18A802

GROUP: 00

SUB CODE: 00

NO REF SOV: 000

OTHER: 000

KUZ'MINA, S.V.; NOSAYEV, G.A.; SAZHIN, B.I.; EYDEL'NANT, M.P.

Use of the method of electroconductivity measurement for studying
the kinetics of the block polymerization of styrene. Plast. massy
no.4:67-70 '65. (MIRA 18:6)

KUZ'MINA, S.V.

Spinal sensorial component of the lower mesenteric ganglion.
Dokl. AN SSSR 153 no.3:731-732 N '63. (MIRA 17:1)

1. Institut biologicheskoy fiziki AN SSSR i Vtoroy Moskovskiy
gosudarstvennyy meditsinskiy institut im. N.I. Pirogova.
Predstavleno akademikom L.S. Shtern:

*

KUZ'MINA, S.V.

Sensorial neurons in the extramural ganglia of the vegetative nervous system. Dokl. AN SSSR 153 no.4:964-965 D '63.

(MIRA 17:1)

1. Institut biologicheskoy fiziki AN SSSR i Vtoroy Meditsinskiy gosudarstvennyy meditsinskiy institut im. N.I. Pirogova.
Predstavleno akademikom L.S. Shtern.

*

KUZ'MINA, S. V.

Morphological basis of Sokolov's phenomenon. Biol. eksp. biol.
1 med. 56 no.9.113-115 S '63.

(MIRA 17:10)

1. Iz kafedry histologii (zav. - prof. T.A. Grigor'yeva) II Moskov-
skogo meditsinskogo instituta imeni N.I. Pirogova. Predstavlena
deystvitel'nym chlenom AMN SSSR A.V. Lebedinskim.

KUZ'MINA, S.V.

Structural organization of the inferior mesenteric ganglion.
Arkh. anat. gist. i embr. 45 no.9:51-58 S'63 (MIRA 17:3)

1. Kafedra gistologii (zav. - prof. T.A. Grigor'yeva) 2-go
Moskovskogo meditsinskogo instituta imeni N.I. Pirogova.
Adres avtora: Moskva, G-48, Malaya Pirogovskaya ulitsa,
1, 2-y Gosudarstvennyy meditsinskiy institut. Kafedra gistologii
i embriologii.

KUZ'CHINA, S. Ya. --- Cand. Tech. Sci. ---

Dissertation: "Studying the Reactions of Matte Formation in Smelting Oxidized Nickel Ores." Moscow Inst of Nonferrous Metals and Gold imeni M. I. Kalinin, 2 Jun 47.

SO: Vechernyaya Moskva, Jun, 1947 (Project #17836)

KUZ'MINA, S.Ya.; BERUKSHTIS, G.K.

Atmospheric stability of lacquer and paint coatings in various
climatic regions. Trudy Inst.fiz.khim. 8:181-189 '60.

(MIRA 14:4)

(Lacquer and lacquering)

(Corrosion resistant materials--Climatic factors)

80546

15.8101

S/191/60/000/011/002/016
B013/B054

AUTHORS: Zernova, K. I., Kirpichnikova, V. V., Kotrelev, N. N.,
Kuz'mina, S. Ya.

TITLE: Aging of Polyethylene and Its Mixtures with Polyisobutylene
Under Atmospheric Conditions

PERIODICAL: Plasticheskiye massy, 1960, No. 11, pp. 4 - 8

TEXT: The present paper deals with the aging of polyethylene and its mixtures with polyisobutylene. Samples of ethylene and its mixtures with polyisobutylene at a ratio of 90:10 (POB-90) - POV-90), 67:33 (POV-67), and 50:50 (POV-50) were subjected to fatigue tests in the open air under different climatic conditions in the central part of the USSR, on the coast of the Barents Sea and of the Black Sea, and in Central Asia. The test conditions are sufficiently characterized by the meteorological data of the regions concerned (Table 1). Mechanical characteristics, fatigue strength and elongation, were determined, and thermomechanical properties as well as structural changes were studied. In all materials of the group mentioned,

Card 1/3

88546

Aging of Polyethylene and Its Mixtures With
Polyisobutylene Under Atmospheric Conditions

S/191/60/000/011/002/016
B013/B054

a noticeable deterioration of mechanical properties was observed during the tests: a decrease in strength and a considerable drop in relative elongation. A higher polyisobutylene content reduced the resistance of the polymeric mixture of atmospheric factors. It was found that higher temperatures accelerated the aging of the material, and that a continuous and intense exposure to sunlight greatly increased the degree of aging. Zhurkov's apparatus, modified by Kanavets (Ref. 2), was used to study the thermomechanical properties. The thermomechanical curves showed: 1) The range of elasticity was missing in all curves; 2) after two years of aging, the temperature of transition to the viscous state shifted slightly towards lower temperatures; 3) after aging, the curves for all materials showed a character different from that before aging. This indicates the formation of reactive groups due to chemical changes during aging. The strong decrease in elongation, starting in all polyethylene - polyisobutylene mixtures after 6 - 8 months already, indicates the predominance of the destruction process during aging. The structural changes during aging were studied by infrared spectroscopy, and the formation of aldehyde groups was ascertained. Like other hydrocarbons, polyethylene oxidizes

Card 2/3

Aging of Polyethylene and Its Mixtures With
Polyisobutylene Under Atmospheric Conditions

88546

S/191/60/000/011/002/016
B013/B054

during aging with formation of peroxides which decompose and give secondary decomposition products, aldehydes, carbon dioxide, etc. (Ref. 1). The tests showed that polyethylene and its mixtures with polyisobutylene cannot be used longer than 3-4 months in the mentioned characteristic areas under atmospheric conditions (in the open air) because of their low resistance to solar radiation. There are 10 figures, 1 table and 4 Soviet references.

X

Card 3/3

KUZ'MINA, T., kand.yuridicheskikh nauk (g.Saratov)

Let's fill up the gap in legislation. Okhr.truda i sots.strakh. 4
no.11:25 N '61. (MIRA 14:12)

(Industrial safety--Law and legislation)
(Evidence, Expert) .

KUZ'MINA, T.A.

Fibrin content of the blood in rheumatic patients. Zdrav. Bel.
9 no.8:43-45 Ag'63 (MIRA 17:3)

1. Iz kafedry propedeutiki vnutrennikh bolezney Minskogo meditsinskogo instituta (zav. - prof. I.D. Mishenin) i kafedry fakul'tetskoy terapii (zav. - prof. A.M. Davydov) Vitebskogo meditsinskogo instituta.

KUZ'MINA, T.K., vrach

Histamine skin test in peptic ulcer and cancer of the stomach.
Sbor. nauch. rab. Sar. gos. med. inst. 44:237-239 '64.

(MIRA 18:7)

1. Iz fakul'tetskoy khirurgicheskoy kliniki pediatricheskogo fakul'teta (zav. - prof. N.I. Golubev) Saratovskogo meditsinskogo instituta (rektor - dotsent N.R. Ivanov) na baze Dorozhnoy klinicheskoy bol'nitsy (nachal'nik - R.F. Nazarenko).

CHUKHRIN, L.A., inzh.; KUZ'MINA, T.M., inzh.

Brittle failure of marine boilers elements. Sudostroenie
27 no.9:60-61 S '61. (MIRA 14:11)
(Boilers, Marine—Corrosion)

5.3300(B)
5.1190

69662

S/180/60/000/02/025/028

E071/E135

AUTHORS: Katsobashvili, Ya.R., Kuz'mina, T.N., Kurkova, N.S.,
Kukhticheva, V.F., Levitskiy, E.A., Likhobabenko, V.S.,
and Masolova, F.A. (Moscow)

TITLE: Mechanically Strong Aluminonickel Catalyst for the
Process of Destructive Hydrogenation 1

PERIODICAL: Izvestiya Akademii nauk SSSR, Otdeleniye tekhnicheskikh
nauk, Metallurgiya i toplivo, 1960, Nr 2, pp 159-164 (USSR)

ABSTRACT: The process of destructive hydrogenation of crudes and
residues under a moderate pressure in a circulating
stream of a catalyst developed by the Petroleum Institute
of the Academy of Sciences USSR (Ref 1) requires the
application of catalysts which are resistant to wear. 4
An investigation of the influence of conditions of
preparation of aluminonickel catalysts, containing 10% of
nickel oxide, on their mechanical strength is described
in the present paper. The experiments were carried out
on a small and pilot plant scale. The precipitation of
mixed and separate aluminium and nickel hydroxides from
2N solutions of nitrates or sulphates was done with sodium
hydroxide, controlling the pH of the medium, temperature

Card
1/3

69662

S/180/60/000/02/025/023

E071/E135

Mechanically Strong Aluminonickel Catalyst for the Process of
Destructive Hydrogenation

of precipitation, ageing time of the precipitated hydroxides and, in the case of separate precipitation from sulphate salts, the amount of wash water on the residual content of sulphate ion. The experimental results obtained are given in tables: Table 1 gives the influence of pH of the medium during precipitation on the strength of the catalyst (experimental conditions: precipitation temperature 20 °C; ageing temperature 20 °C; washing with ammoniacal water at room temperature); Table 2 gives the influence of pH of the medium during precipitation on the strength of the catalyst (experimental conditions: duration of ageing 45 hours, pH during precipitation 9.6); Table 3 gives the influence of ageing on the mechanical strength of the catalyst (pH at the end of precipitation 9.6, precipitation and ageing at room temperature); Table 4 gives the influence of chemical composition on the content of sulphate ions in aluminonickel catalysts; Table 5 gives the properties of aluminonickel catalysts prepared by the method of separate

Card
2/3

69662

S/180/60/000/02/025/028

K071/E135

Mechanically Strong Aluminonickel Catalyst for the Process of Destructive Hydrogenation

precipitation. The activity of the catalysts prepared was tested under standard conditions of destructive hydrogenation at a moderate pressure (Ref 1) of sulphurous Tuymazin crude oil and compared with that of an industrial aluminomolybdenum catalyst. The experimental results are given in Table 6. It was found that in respect of their activity aluminonickel catalysts are not inferior to industrial aluminomolybdenum catalyst Nr 7360: the yield of liquid products amounted to 87-90%, the yield of coke to 2.7-3.8% and the degree of desulphurization to 76-88%. It is concluded that aluminonickel catalyst prepared under optimum conditions possesses satisfactory mechanical properties and activity for the process of destructive hydrogenation under a moderate pressure (30 atm).

Card
3/3

There are 6 tables and 7 references, of which 5 are Soviet, 1 is English and 1 is German.

KATSOBASHVILI, Ya.R.; KURKOVA, N.S.; LIKHOBABENKO, V.S.; LEVITSKIY, E.A.;
KUZ'MINA, T.N.; KUKHTICHEVA, V.F.; MOSOLOVA, F.A.

Preparation of mechanically strong catalysts based on aluminum
oxide. Trudy Inst. nefi 14:160-186 '60. (MIRA 14:5)
(Catalysts)
(Aluminum oxide)

KUZ'MINA, T. N.

"A Study of the Polymorphism of Unsaturated Fatty Acids C_{18} ," Acta Phys.,
14, No.3, 1941

Lab. Dipole Moments, Phys. Chem. Inst. im. Karpov, Moscow

KATSOBASHVILI, Ya.R.; KURKOVA, N.S.; LIKHOBABENKO, V.S.; LEVITSKIY, E.A.;
KUZ'MINA, T.N.; KUKHTICHEVA, V.F.; HASOLOVA, F.A.

Effect of the conditions under which the hydroxide precipitates on
the mechanical durability of aluminum oxide. Izv. AN SSSR. Otd.
khim. nauk no.2:245-250 F '61. (MIRA 14:2)

1. Institut neftekhimicheskogo sinteza AN SSSR.
(Alumina)

TANANAYEV, I.V.; KUZ'MINA, T.N.

Conditions of precipitation of zirconium diselenite. Zhur. neorg.
khim. 8 no.12:2821-2822 D '63. (MIRA '7:9)

KUZ'MINA, T. P.

137-58-4-6561

Translation from: Referativnyy zhurnal, Metallurgiya, 1958, Nr 4, p 35 (USSR)

AUTHORS: Lisovskiy, D. I., Kuz'mina, T. P.

TITLE: Kinetics of the Reduction of Free Carbon Monoxide and Carbon Monoxide Chemically Bound in Cobaltous Silicates (Kinetika vosstanovleniya svobodnoy i svyazannoy v silikaty zakisi kobal'ta okis'yu ugleroda)

PERIODICAL: Sb. nauchn. tr. Mosk. in-t tsvetn. met. i zolota i VNITO tsvetn. metallurgii, 1957, Nr 26, pp 94-107

ABSTRACT: The kinetics of the reduction of the oxides and silicates of Co, oxidized Ni ore, and converter slag by synthetic water-jacket gas, are studied. In all these cases except that of converter slag, reduction starts at 700°C and is accelerated by increase of temperature. The process goes most effectively for cobalto-cobaltic oxide at temperatures in excess of 900°, while for cobaltous monosilicate it goes best at 1100°. The presence of FeO, SiO₂, NiO, and CaO reduces the rate of reduction of cobaltous monosilicate. Converter slag reduces at 900°, while at 1100° the process is slowed by the fusion of the slag. The rate of reduction of the slag is in inverse order to

Card 1/2

137-58-4-6561

Kinetics of the Reduction (cont.)

its grain size. The addition of 50% CaO to oxidized Ni ore and converter gas slows the reduction thereof.

L. P.

1. Oxides--Reduction--Kinetics
2. Silicates--Reduction--Kinetics

Card 2/2

KUZ'MINA, T.R.

Effect of negative air ionization on the pH of blood in the
resuscitation of animals. Nerv. sist. no.5:140-143 '64.
(MIRA 18:3)

1. Kafedra fiziologii cheloveka i zhivotnykh Leningradskogo
gosudarstvennogo universiteta.

KUZMINA, T.R.

Electrochemical investigation of blood characteristics in cats
during the agonal process from acute blood loss and subsequent
reanimation. Vest. LGU 18 no.3:109-114 '63. (MIRA 16:2)
(BLOOD—ANALYSIS AND CHEMISTRY) (HEMORRHAGE)
(DEATH, APPARENT)

KUZ'MINA, T. S.

42676. MAKSIONOVICH, M. I., LEONOVA, N. A. i KUZ'MINA, T. S. K Biologii Grippoznoy Vspyshki 1946 G. V Tashkente. Autorezerat. Zhurnal Mikrobiologii, Epidemiologii i Immunobiologii, 1948, No 12, s. 76-77.

SO: Letopis' Zhurnal'nykh Statey, Vol. 7, 1949.

BARKOV, N.N., kand. ekon. nauk; Prinimali uchastiye: PONOMAREV, S.A., inzh.; YELISEYEVA, T.V., inzh.; MOLYARCHUK, G.V., kand. ekon. nauk; IVANOV, L.N., inzh.; KASHCHYEVA, I.N., inzh.; LEGORNEVA, V.I., inzh.; KUZ'MINA, T.T., inzh.; INOZEMTSEVA, K.N., inzh.; YANDOLOVSKIY, N.A., inzh.; PAVLOVA, Ye.A., starshiy tekhnik; VOLKOVA, L.S., starshiy inzh.; GAZAR'YAN, G.S., tekhnik; VOROB'YEVA, L.V., tekhn. red.

[Seasonal and weekday variations in railroad freight transportation]. Sezonnaia i vnutrinedel'naiia neravnomernost' gruzovykh perevozok na zheleznykh dorogakh. Moskva, Transzheldorizdat, 1963. 95 p. (Moscow. Vsesoiuznyi nauchno-issledovatel'skii institut zheleznodorozhnogo transporta. Trudy, no. 249).

(MIRA 16:4)

(Railroads—Freight)

KUZ'MINA, T.V.

Organization and work of the department of enteric infections in the
Soviet Red Cross Hospital at Pyongyang. Zhur.mikrobiol.epid. 1
immun. no.1:104-105 Ja '58. (MIRA 11:4)

(GASTROINTESTINAL DISEASES, therapy,
in Russian Red Cross hosp. in N. Korea (Rus)

(HOSPITALS,
Russian Red Cross Hosp. in N. Korea, enterol. department
(Rus)

KUZ'MINA, V., skrutchitsa

Pledge is fulfilled. Okhr. truda i sots. strakh. 6 no.11:9
N '63. (MIRA 16:11)

1. Obshchestvennyy inspektor po okhrane truda, zavod
"Elektrokabel'", g. Kol'chugino Vladimirskoy obl.

SHIBANOV, N.; KUZ'MINA, V.; NIKOLAYEVA, Ye.

In heat and in cold... Sov. profsoiuzy 19 no.21:46-48
N '63. (MIRA 17:1)

1. Sotrudniki Instituta gigiyeny truda i professional'nykh
zabolevaniy AMN SSSR.

S/214/62/000/004/003/004
IO46/I246

AUTHORS: Kuz'mina, V.A., Nevel'skiy, A.V. and Shukstova, Z.N.

TITLE: Photometry of the solar corona on February 15, 1961

SOURCE: Solnechnyye dannyye, no. 4, 1962, 68-77

TEXT: Coronal isophots were determined on a tubus photometer from 8 photographs of the sun taken near Sverdlovsk with HAFA -6/50 (NAFA-6/50) camera (exposures 1/175 and 1/18 sec) at h=5500 m a.s.l. during the eclipse of February 15, 1961, and 5 photographs of the moon taken from the ground on April 3, 1961 between 19h47m and 20h02m. The oblateness of the corona increases rapidly near the limb attaining its maximum (0.20) at a distance of 0.25r from the limb and gradually decreasing thereafter to 0.10. The average surface luminance of the corona varies with the

Card 1/2

S3214/62/000/004/003/004
I045/I246

Photometry of the solar...

distance from the center of the sun as $B = 0.129r^{-7.97}$ for $r \leq 1.4r$, and $B = 0.056r^{-5.74}$ for $r > 1.4r$. The integral luminance of the corona in units of sun's luminance is $E_c/E = 8.58 \cdot 10^{-7}$ for $r \leq 1.4r$, and $E_c/E = 6.53 \cdot 10^{-7}$ for $r > 1.4r$. The structural and the photometric features of the February 15, 1961 corona are very much like those of February 25, 1952 and June 30, 1954 corona. There are 5 figures and 4 tables. ✓

ASSOCIATION: Kafedra astronomii i geodezii Ural'skogo gosudarstvennogo universiteta (Department of Astronomy and Geodesy of the Ural State University)

Card 2/2

ACC NR: AT7003860 (A) SOURCE CODE: UR/3241/65/002/000/0116/0120

AUTHOR: Shubin, Ye. M. (Candidate of technical sciences); Kuz'mina, V. A.;
Shubina, L. N.

ORG: none

TITLE: Defining the production technology of cheese paste from buttermilk

SOURCE: Krasnodar. Nauchno-issledovatel'skiy institut pishchevoy promyshlennosti. Trudy, v. 2, 1965, 116-120

TOPIC TAGS: food technology, processed animal product, food product
machinery

ABSTRACT: On the basis of previous information and the results of laboratory tests, the Tikhoretsk cheese factory, which is equipped with a special production line for condensed buttermilk milk products, started to produce experimentally cheese paste from condensed buttermilk. The results of this experiment are presented in detail in the original article. Tests verified and improved the composition of the raw material for making cheese paste, the basic characteristics of

Card 1/2

ACC NR: AT7003860

the finished product, the cooling conditions and the preservation qualities. The cheese paste produced was found to satisfy all requirements of quality and taste. The technical specifications instructions for manufacture and cost estimates for the cheese paste were determined and approved. The Tikhoretsk cheese factory, is presently equipped with special machinery to produce condensed buttermilk products including cheese paste. The participation of the Scientific associate I. G. Lopatina and N. I. Seredich in the study is acknowledged. Orig. art. has: 1 figure and 4 tables. [GC]

SUB CODE: 06 /SUBM DATE: none/ORIG REF: 004/

Card 2/2

GARNISH, A.M.; SHAFRANSKIY, L.M.; DANILOVA, A.G.; KUZ'MINA, V.A.; Primalni
uchastiye: ZVEZDINA, E.A.; ISHCHERIKOVA, G.A.

Obtaining acrolein from a propane-propylene fraction. Neftoper. i
neftekhim. no.10:26-28 '63. (MIRA 17:2)

1. Novokuybyshevskiy filial Nauchno-issledovatel'skogo instituta
sinteticheskikh spirtov.

OSLON, N.L.; KOKHMAN, L.V.; CHEMERINSKAYA, R.I.; BURGANOVA, V.A.; KUZ'MINA,
V.A.

Investigating the effect of ingot metal density on the quality of
internal pipe surfaces made of ShKh15 steel. Stal' 24 no.6:529-530
Je '64. (MIRA 17:9)

1. Permskiy politekhnicheskii Institut i Pervoural'skiy Novotrubnyy
zavod.

Name: KUZ'MINA, Vera Dmitriyovna

Dissertation: Dramaturgy and Theatrical art in Russian Municipal democratic theaters of the 18th century
(study and texts)

Degree: Doc Philological Sci

Affiliation: [not indicated]

Defense Date, Place: 23 Nov 56, Council of Inst of World Literature,
imeni Ger'kiy, Acad Sci USSR

Certification Date: 23 Mar 57

Source: BMVO 14/57

MELAMED, E.A.; KUZ'MINA, V.G.

Fractional method of determining pyrophosphates in a cyanide-free electrolyte for brass plating. Kauch.i rez. 21 no.4:49 Ap '62. (MIRA 15:4)

1. Kiyevskiy zavod "Krasnyy rezinshchik".
(Pyrophosphates) (Brass)

GORSHKOV, M.P., nauchnyy sotr.; KOLYCHEV, L.I., nauchnyy sotr.;
KOTOV, G.G., nauchnyy sotr.; KUZ'MINA, V.I., nauchnyy sotr.;
RUMYANTSEVA, A.V., nauchnyy sotr.; SELINA, N.G., nauchnyy
sotr.; CHEREPKOVA, I.V., nauchnyy sotr.; POTAPOV, Kh.Ye.,
red.; OVCHINNIKOV, N.G., red.; PONOMAREVA, A.A., tekhn. red.

[Raising the level of the development of collective farm operation]
Povyshenie urovnia razvitiia kolkhoznogo proizvodstva.
Moskva, Izd-vo ekon. lit-ry, 1961. 236 p. (MIRA 15:2)

1. Moscow. Vsesoyuznyy nauchno-issledovatel'skiy institut ekonomiki sel'skogo khozyaystva. 2. Vsesoyuznyy nauchno-issledovatel'skiy institut ekonomiki sel'skogo khozyaystva (for Gorshkov, Kolychev, Kotov, Rumyantseva, Selina, Cherepkova, Kuz'mina).
(Farm management)

8/123/62/000/023/004/008
A004/A101

AUTHORS: Sviderskaya, Z. A., Barsukova, T. A., Kuz'mina, V. I., Bochvar, N.R.

TITLE: The properties of aluminum alloys containing lithium

PERIODICAL: Referativnyy zhurnal, Mashinostroyeniye, no. 23, 1962, 17, abstract 23A122 (In collection: "Issled. splavov tsvetn. metallov". 3. Moscow, AN SSSR, 1962, 75 - 85)

TEXT: The authors present the results of investigating the effect of Li-additions (2 - 3%) on the properties of binary, ternary and more complex aluminum alloys. It is shown that, if the Li-concentration is increased to 2 - 3%, the strength characteristics of Al-Cu-Li alloys decrease with a simultaneous drop of elongation. The addition of Mn to these alloys increases both the strength and the elongation. Alloys containing Mn possess best properties at elevated temperatures. Thus the long-life strength σ_{100} of Al-alloys containing 4% Cu, 2% Li and 0.6% Mn amounts to 13 kg/mm² at 250°C. There are 18 references. ✓

[Abstracter's note: Complete translation]

Card 1/1

SVIDERSKAYA, Z.A.; KADANER, E.S.; TURKINA, N.I.; KUZ'MINA, V.I.

Boundary of the solid solution region in the aluminum corner of
the system aluminum - manganese - lithium. Metalloved. i term.
obr. met. no.12:2-6 D'63. (MIRA 17:2)

KUZ'MINA, V.I.

Medical equipment of the seven-year plan, Zdorov'e 5 no.11:
16-17 N '59. (MIRA 13:3)
(MEDICAL INSTRUMENTS AND APPARATUS)

DRITS, M. Ye. (Moskva); SVIDERSKAYA, Z. A. (Moskva); KUZ'MINA, V. I.
(Moskva)

Effect of iron, silicon, and manganese on the properties of
aluminum-copper-lithium alloys. Izv. AN SSSR. Otd. tekhn.
nauk. Met. i topl. no.6:150-158 N-D '62.

(MIRA 16:1)

(Aluminum-copper-lithium alloys—Testing)

ANDRUSHCHENKO, A.G.; BEREZKINA, O.A.; KUZ'MINA, V.I.; OZEROVA,
G.M.; PAL'CHIKOVA, A.P.; TSARIN, A.P.; TIMOFEYEV, L.N.;
NIKITIN, G.A., krayeved; GARMASH, P.Ye., red.; FISENKO,
A.T., tekhn. red.

[Alupka; an excursion sketch; its nature, history, sanatoriums, the palace-museum, its park, and an information directory] Alupka; ekskursionnyi ocherk: priroda, istoria, zdavnitsy, dvorets-muzei, park, spravochnye svedeniia. Simferopol', Krymizdat, 1963. 78 p. (MIRA 16:10)

1. Nauchnyye sotrudniki Alupkinskogo dvortsa - muzeya (for all except Fisenko, Garmash).
(Alupka--Guidebooks)

L 08137-67 EWT(m)/EWP(v)/EWP(j) IJP(c) WW/RM

ACC NR: AP6029270

(A)

SOURCE CODE: UR/0323/66/000/003/0038/0042

AUTHOR: Kotov, M. P. (Doctor of Technical Sciences, Professor); Sorokina, N. S. (Candidate of Chemical Sciences, Docent); Kharlashkin, V. I. (Engineer); Kuz'mina, V. I. (Engineer); Petrova, T. A. (Engineer); Bulgakov, P. M. (Engineer)

27

26

ORG: Kiev Technological Institute for Light Industry (Kiyevskiy tekhnologicheskii institut legkoy promyshlennosti)

8

TITLE: Technological conditions for preparing and applying thermoplastic adhesive KTILOL-11 in beading parts of shoe uppers

15

SOURCE: IVUZ. Tekhnologiya legkoy promyshlennosti, no. 3, 1966, 38-42

TOPIC TAGS: THERMOPLASTIC MATERIAL, footgear, adhesive, water repellant lubricant / KTILOL-11 ADHESIVE

ABSTRACT: The new adhesive KTILOL-11 is prepared by mixing and heating to 190-200°C 50% polyamide 54 with 18-30% modified alkyd, 4-8% plasticizer KPT and 27-18% novolac type phenol-formaldehyde resin. The alkyd is previously modified by heating, with removal of water, to an acid number not over 30 and a melting point not below 60°. Such compositions containing no more than 24% alkyd and 6% plasticizer are suitable for making adhesive coated strands which can be coiled without sticking. The adhesive-coated threads of 1.0-1.2 x 10⁻³ m diameter were made by passing cotton thread through the molten adhesive and through a die. Various waterproofing compositions were tried

Card 1/2

• L 08137-67

ACC NR: AP6029270

to keep the threads from sticking during storage. A 5% solution of stearic acid in mixed solvent (5 parts by weight mineral oil, 95 kerosene) prevented sticking for two days; coating with mineral oil alone also helped somewhat. Other precautions in making the adhesive-coated strands: the resin composition should not be overheated during preparation; sufficient time for cooling the adhesive on the thread is needed—the take-up spool should be not less than 2 meters from the die; optimum rate is 20-25 rev/min. L. N. Zavel'gel'skii, Senior Engineer of the "Burevestnik" factory took part in the work. Orig. art. has: 2 tables.

SUB CODE: 11, 13/ SUBM DATE: 20Jan66/ ORIG REF: 004

Cord 2/2 nst

KUZ'MINA, V.K.; PRAVOVEROV, K.N.; SHTEYNBERG, Ya.G.

Calculating infrared systems of heating taking into consideration
physiological characteristics. Nauch. trudy AKKH no.23:71-81 '63.
(MIRA 17:12)

KUZ'MINA, V.K.

Physiological basis for the use of warm showers after working
in the cold. Gig. i san. 24 no.6:27-32 Je '59.

(MIRA 12:8)

1. Iz laboratorii promyshlennogo mikroklimata Instituta
gigiyeny truda i professional'nykh zabolevaniy AMN SSSR i
kafedry gigiyeny II Moskovskogo meditsinskogo instituta imeni
N.I.Pirogova.

(COLD, eff.

physiol. basis of use of hot showers after
work under cold cond. (Rus))

(INDUSTRIAL HYGIENE

same)

KUZ'MINA, V.K. (Moskva)

Sanitary and hygienic labor conditions in large-panel construction during the winter season. Gig. truda i prof. zab. 4 no.1: 13-18 Ja '60. (MIRA 15:3)

1. Laboratoriya promyshlennogo mikroklimata Instituta gigiyeny truda i professional'nykh zabolevaniy AMN SSSR i kafedra gigiyeny II Moskovskogo meditsinskogo instituta imeni N.I. Pirogova.
(CONSTRUCTION INDUSTRY--HYGIENIC ASPECTS)

KUZ'MINA, V.K.

Setting standards for local radiant heating during work
performed in the cold. Gig. truda i prof. zab. 4 no.11:
29-34 N '60. (MIRA 15:3)

1. II Moskovskiy meditsinskiy institut imeni N.I. Pirogova i
Institut gigiyeny turda i professional'nykh zabolevaniy AMN
SSSR.

(RADIANT HEATING)

(BODY TEMPERATURE)

KUZ'MINA, V.K.

Hygienic evaluation of the radiant cooling system of buildings
in the summer at the Tskhaltubo Health Resort. Gig. i san. 25
no. 5:21-25 My '60. (MIRA 13:10)

1. Iz Instituta gigiyeny truda i professional'nykh zabolevaniy
AMN SSSR i kafedry gigiyeny II Moskovskogo meditsinskogo instituta
imeni N.I. Pirogova.
(TSKHALTUBO—AIR CONDITIONING)

KUZ'MINA, V.K., assistant

Sources of local radiant heating. Gig. i san. 25 no. 6:87-89
Je '60. (MIRA 14:2)

1. Iz kafedry gigiyeny II Moskovskogo meditsinskogo instituta imeni
N.I. Pirogova i Instituta gigiyeny truda i professional'nykh
zabolevaniy AMN SSSR.

(RADIANT HEATING)

KLYUGIN, S.A.; KUZ'MINA, V.K.

Determination of the thermal insulating properties of clothing.
Gig.i san. 25 no.7:60-63 JI '60. (MIRA 14:5)

1. Iz Instituta gigiyeny truda i professional'nykh zabolevaniy
AMN SSSR i kafedry gigiyeny II Moskovskogo meditsinskogo insti-
tuta imeni N.I. Pirogova.
(CLOTHING, COLD WEATHER)

DUBINSKAYA, I.D., mladshiy nauchnyy sotrudnik; KUZ'MINA, V.K., starshiy
nauchnyy sotrudnik

Use of some physiological methods of research for the hygienic
evaluation of the agricultural work of school children. Gig. i
san. 27 no.3:28-34 Mr '62. (MIRA 15:4)

1. Iz Instituta gigiyeny detey i podrostkov AMN SSSR.
(SCHOOL CHILDREN) (AGRICULTURE—HYGIENIC ASPECTS)

NISNEVICH, M.L., kand.tekhn.nauk; TIMCHENKO, N.K., inzh.; FIRSOVA, L.N.,
inzh.; KALASHNIKOVA, T.V., inzh.; KUZ'MINA, V.M., inzh.

Dressing limestone found near Moscow so as to obtain high-quality
aggregates for concrete. Sbor. trud. NIIZHelezobetona no.3:3-41
'60. (MIRA 15:2)

(Limestone) (Aggregates (Building materials))

KAN'KOVSKAYA, Ye.N.; KUZ'MINA, V.M.

Coating bread pane with polymer materials. Bil.tekh.-ekon.inform.
Gos.nauch.-issl.ist.nauch. tekhn.inform. 18 no.1:54-55 Ja '65.
(MIRA 18:4)

sleep therapy was discontinued. Signs of intoxication appeared in some patients which coincided with a reduction in the urinary ribonuclease secretion which warranted the fact that the urine is not a good indicator of the metabolic state. The organism's metabolic requirements increase. On the basis of that, patients subjected to narcotic sleep therapy were administered this mine concurrently with glucose feeding. This considerably reduced or completely abolished the

А.И.Иван, В.Н.И.

6335. Izucheniye Funktsional'noy Sposobnosti Serdtsa Sportsmenov
Po Dannym Minutnogo I Udarnogo Ob'yema Krovi. M., 1954. 16s. 22sm.
(Gos. Tsentr. Ordena Lenina In-T Fiz. Kul'tury Im. I. V. Stalina)
100 Ekz. B. Ts. - (54-58207)

S0: Knizhanya Letopis' 1, 1955

KUZ'MINA, V. N.

"Study of the Functional Capacity of the Hearts of Athletes According to Data on the Momentary and Pulse Volume of the Blood." Cand Med Sci, State Central Order of Lenin Inst of Physical Culture imeni I. V. Stalin, Moscow, 1954; Inst of Physical Culture and Sport imeni V. I. Lenin. (KL, no. 5, Jan 55)

Survey of Scientific and Technical Dissertations Defended at USSR Higher Educational Institutions (12)

SO: Sum. No. 556, 24 Jun 55

KUZ'MINA, V.B.

Study of athletes' heart capacity as shown by data on minute
and stroke volume of the blood. Probl.vrach.kontr. no.3:177-193
'55. (MIRA 12:9)

(ATHLETES)

(HEART)

(BLOOD VOLUME)

HEMOVA, Ye.Ye; KUKOLEVSKAYA, Ye.V.; KUZ'MINA, V.H.

Study of the training level of short-distance runners based on
medical examinations. E-robl.vrach.kontr. no.4:38-54 '58.
(MIRA 12:9)

(RUNNING--HYGIENIC ASPECTS)

IL'INA, L.I.; KUKOLNYSKAYA, Ye.V.; KUZ'MINA, V.N.

Comparison of the results of a study of athletes made by the
electroencephalographic, chronaximetric, and general clinical
methods. Probl.vrach.kontr. no.4:238-255 '58. (MIRA 12:9)

1. Institut terapii AMN SSSR (for Il'ina).
(ATHLETES) (ELECTROENCEPHALOGRAPHY) (NERVOUS SYSTEM)

IL'INA, L.I.: KUZ'MINA, V.H.

Changes in the optic and motor chronaxia of athletes after
various training loads. Probl.vrach.kontr. no.4:256-267
'58. (MIRA 12:7)

1. Institut terapii AMN SSSR (for Il'ina).
(ATHLETES) (CHRONAXIA)

KUZ'MINA, V.N.; KOVAL'CHUK, T.P.; GESELEVICH, V.A.

Training condition of wrestlers during preparation for important competitions. Probl. vrach kontr. no.5:79-94 '60. (MIRA 14:3)
(WRESTLING)

KUZ'MINA, V.P.

3-8-28/34

AUTHOR: Tulayeva, A.G., Dotsent, Candidate of Chemical Sciences
Kleshcheva, G.V., Kuz'mina, V.P.

TITLE: A Textbook Required by Future Teachers (Uchebnik, nuzhnyy
budushchim uchitelyam)

PERIODICAL: Vestnik Vysshey Shkoly, 1957, # 8, pp 87-89 (USSR)

ABSTRACT: The article is a review of a textbook "Foundations of
Physical and Colloidal Chemistry" (Osnovy fizicheskoy i
kolloidnoy khimii) by S.A. Balezin and G.S. Parfenov, approved
by the RSFSR Ministry of Education for use at pedagogic
institutes. It is pointed out that there was an actual need
for such a textbook and that it was warmly welcomed. More
than 6 months have since passed, and there is no doubt that
the book has greatly assisted students in mastering the
complicated physico-chemical regularities. Students have
made better progress this year, and their knowledge has
greatly increased. The article enumerates a few deficiencies
and mistakes but points out that they do not lessen the
general value of the book. The article contains 1 Russian
reference.

Card 1/2

A Textbook Required by Future Teachers

3-8-28/34

ASSOCIATION: Penzenskiy pedagogicheskiy institut (Penza Pedagogical Institute)

AVAILABLE: Library of Congress

Card 2/2

506/13905

Special printed edition: title & description in Hebrew with title (Collection of Hebrew Classical and Post-Talmudic Texts) Moscow, Medgiz, 1939. 499 p. Hebrew title inserted. 9,000 copies printed.

Moscow: M.D. Gusev, U.S.A. Republic, A.B. Kozlov, H.K. Semakova,
I.M. Shchegoleva; Bel. (Leningrad) V.I. Labarev; Turk. Nat. Acad.
Laboratory.

PURPOSE: This collection of articles is intended for physicians, medical students and public health workers, chemists and other specialists working in radioactive contamination.

COPYRIGHT. The writer assumes the following subjects: (1) characteristics of expanding oxidation and decomposition reactions in inertification zones were as occurred on with radioactive substances; (2) physico-chemical and electrical models for determining organic radioactive substance in samples of air, water, soil and foodstuffs; (3) physical models of measuring contamination of the air by radioactive gases and aerosols, and methods for determining the levels of contamination of writing papers, clothes and leather coverings; (4) methods of measuring external exposure of X- and gamma-radiation, and methods of low-dosimetric dosimetry; (5) absolute and relative models of measuring the activity of solid and liquid radioactive sources. There are four appendices dealing with methods of calculating the total dose from sources of ionizing radiation, ratio of activity, an dose from internal (biological) radioactive contamination in the skeleton of foodstuffs, shielding regulations observed during the operation of radioactive apparatuses and the calculation of the level of the immediate layer of ionizing radiation. The volume ends with Th. Breyer's and J. Kuhn's historical aspect of the end of their careers.

Ca. 5. The Basic Chemical Methods of Determining Radioactive Substances in Water, Soil, Biological Material and Air

2. Preparation of samples of radioactive concentrated slurries for measurement of activity (T. J. Szymanski) 51
3. Preparation of samples of water, hydrocarbon, soil and variable deposits (E. Follen-Doreau, G. G. S. Szymanski) 53
4. Determination of radioactive elements and isotopes (E. Follen-Doreau) 57
5. Determination of radioactive oxygen (T. J. Szymanski) 61
6. Separation and determination of radioactive sodium in discharge waters (T. A. Szymanski and T. J. Szymanski) 65
7. Determination of the total collection of radioactive new-born isotopes (T. J. Szymanski) 66
8. Determination of radioactive carbon (T. J. Szymanski) 70
9. Determination of radioactive potassium and of radioactive elements of the lanthanum group in discharge waters (T. A. Szymanski and T. J. Szymanski) 73
10. Separation and determination of radioactive strontium in discharge waters (T. A. Szymanski and T. J. Szymanski) 75
11. Separation and determination of radioactive strontium in discharge waters (T. A. Szymanski and T. J. Szymanski) 80
12. Separation and determination of radioactive sodium in discharge waters (T. A. Szymanski and T. J. Szymanski) 81
13. Determination of radioactive sodium in water (T. J. Szymanski) 85
14. Determination of radioactive sodium in discharge waters (T. A. Szymanski and T. J. Szymanski) 86
15. Determination of radioactive phosphorus (T. J. Szymanski) 91
16. Determination of potassium (T. A. Szymanski) 97

Recommendations

Ch. IV. Radiochemical and Chemical Methods of Determining Certain Radioactive Elements in the Air

1. Taking samples of the air (A.S. Phosphoryls and A.S. Terebenols)
2. Methods for analysis (A.S. Phosphoryls and A.S. Terebenols)
3. The mechanism of reaction in the air (A.S. Phosphoryls, A.S. Terebenols, A.S. Kuznetsov)
4. Identification of products in the air (A.S. Phosphoryls, A.S. Terebenols)
5. Identification of radium in the presence of other radioactive products (A.S. Anisimov and A.S. Kornilov, with the participation of A.S. Terebenols)
6. Identification of polonium (A.S. Baikal and A.S. Kuznetsov)
7. Separation of radioactive iodine in the air (A.S. Shvachkov)

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